

MSU Weed Science Research Program

Broadleaf weed control with PowerFlex HL in wheat

Trial ID: WT04-12 Study Dir.: Sprague, Powell
 Conducted: C-28 Campus Investigator: Christy Sprague

Date Planted: Oct/26/2011 **Row Spacing:** 7.5 IN
Variety: D8006 **No. of Reps:** 4
Population: 2 million seeds/A **% OM:** 2.6
Soil Type: Loam **pH:** 6.1
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Drilled into soybean stubble
Fertilizer: None at planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CAPBP	SHEPHERDSPURSE	CAPSELLA BURSA-PASTORIS (L.) MEDIK.
2.	ERIC A	HORSEWEED (Marestail)	CONYZA CANADENSIS L.
3.	VERPG	SPEEDWELL, PURSLANE	VERONICA PEREGRINA L.
4.	ERPVE	WHITLOWGRASS, SPRING	DRABA VERNA L.
5.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
Crop	Code	Common Name	
1.	TRZAW	WHEAT, WINTER	

Application Description

Application Timing: A POST
Date Treated: Apr/12/2012
Time Treated: 6:00 PM
% Cloud Cover: 50
Air Temp., Unit: 60 F
% Relative Humidity: 30
Wind Speed/Unit/Dir: 4 mph W
Soil Temp., Unit: 56 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

Crop Name: A TRZAW
Height (In.): 9"
Stage (L): FEEKES 6

Weed Stage at Each Application

Weed 1 Name: A CAPBP
Height (In.): 4"
Stage (L): ros-flowr
Weed 2 Name: ERIC A
Height (In.): 2"
Stage (L): 8
Weed 3 Name: VERPG
Height (In.): 3"
Stage (L): 10
Weed 4 Name: ERPVE
Height (In.): 4"
Stage (L): flowering
Weed 5 Name: AMBEL
Height (In.): 0.5"
Stage (L): 2

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
A	Cub	3.8	AirMix	11003	26"	20"	100"	19	water	28	PSI

Comments: Horseweed (marestail) and common ragweed populations are resistant to ALS-inhibiting herbicides.

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Weed Code	TRZAW	TRZAW	CAPBU	ERICA	VERPG
Crop Code	injury	injury	control	control	control
Rating Data Type	percent	percent	percent	percent	percent
Rating Unit	Apr/19/2012	May/01/2012	May/01/2012	May/01/2012	May/01/2012
Rating Date	7 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A
Trt-Eval Interval					
ARM Action Codes					
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	TRZAW	TRZAW	CAPBU	ERICA	VERPG
1	Untreated							0	0	0	0	0
2	PowerFlex HL	13	WG	2	oz/a	POST	A	11	0	64	0	56
	Activator 90		L	0.25	% v/v	POST	A					
3	PowerFlex HL	13	WG	2	oz/a	POST	A	11	0	68	0	78
	Activator 90		L	0.25	% v/v	POST	A					
	28% UAN		L	2	% v/v	POST	A					
4	PowerFlex HL	13	WG	2	oz/a	POST	A	10	0	97	99	91
	WideMatch	1.5	L	8	fl oz/a	POST	A					
	Activator 90		L	0.25	% v/v	POST	A					
	28% UAN		L	2	% v/v	POST	A					
5	Affinity BroadSpec	50	SG	0.75	oz/a	POST	A	6	0	91	0	89
	Activator 90		L	0.25	% v/v	POST	A					
6	Huskie	2.06	L	11	fl oz/a	POST	A	0	0	95	99	84
	Activator 90		L	0.25	% v/v	POST	A					
	28% UAN		L	2	% v/v	POST	A					
LSD (P=.05)								2.3	0.0	6.2	0.0	10.4
CV								23.83	0.0	5.98	0.0	10.4

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	ERPVE	AMBEL	TRZAW	TRZAW
Crop Code				
Rating Data Type	control	control	moisture	yield
Rating Unit	percent	percent	percent	bu/acre
Rating Date	May/01/2012	May/01/2012	Jul/10/2012	Jul/10/2012
Trt-Eval Interval	19 DA-A	19 DA-A	89 DA-A	at 13% M
ARM Action Codes				TY1
# Subsamples, Dec.	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	ERPVE	AMBEL	TRZAW moisture	TRZAW yield
1	Untreated							0	0	13.3	92.1
2	PowerFlex HL	13	WG	2	oz/a	POST	A	75	0	13.2	91.4
	Activator 90		L	0.25	% v/v	POST	A				
3	PowerFlex HL	13	WG	2	oz/a	POST	A	73	0	13.6	89.1
	Activator 90		L	0.25	% v/v	POST	A				
	28% UAN		L	2	% v/v	POST	A				
4	PowerFlex HL	13	WG	2	oz/a	POST	A	82	99	13.0	88.4
	WideMatch	1.5	L	8	fl oz/a	POST	A				
	Activator 90		L	0.25	% v/v	POST	A				
	28% UAN		L	2	% v/v	POST	A				
5	Affinity BroadSpec	50	SG	0.75	oz/a	POST	A	71	8	13.3	90.2
	Activator 90		L	0.25	% v/v	POST	A				
6	Huskie	2.06	L	11	fl oz/a	POST	A	88	99	13.4	94.0
	Activator 90		L	0.25	% v/v	POST	A				
	28% UAN		L	2	% v/v	POST	A				
LSD (P=.05)								11.4	5.9	0.78	5.54
CV								11.68	11.41	3.88	4.05

Means followed by same letter do not significantly differ (P=.05, LSD)